CLAIMS

- 1. A pneumatic tire, characterized in that a rubber composition including a polybutadiene with a cis-1,4 bond content of not less than 99.0% and a vinyl bond content of not more than 0.3% as measured by a Fourier transform infrared spectroscopy is used in any one of tire members.
- 2. A pneumatic tire according to claim 1, wherein the polybutadiene is a polymer obtained by polymerizing 1,3-butadiene in the presence of a catalyst composed of a metallocene type cation complex of a gadolinium compound.
- 3. A pneumatic tire according to claim 2, wherein the metallocene type cation complex of the gadolinium compound is represented by the following general formula (I):

$$R^{1}_{n}GdX_{m} \cdot \cdot \cdot \cdot (I)$$

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- (wherein Gd is gadolinium; R¹ is cyclopentadienyl group, a substituted cyclopentadienyl group, indenyl group, a substituted indenyl group, fluorenyl group or a substituted fluorenyl group; X is an anion; n is an integer of 1 or 2; and m is an integer of 1 or 2).
- 4. A pneumatic tire according to claim 1, wherein the tire 20 member is a sidewall.
 - 5. A pneumatic tire according to claim 1, wherein the tire member is a tread.